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CENTRAL INTELLIGENCE AGENCY

## INFORMATION REPORT

REPORT

CD NO

25X1

COUNTRY East Germany

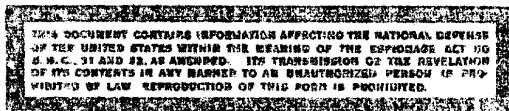
DATE DISTR. 30 November 1965

SUBJECT WTBG 3 Development of an Installation for  
Testing Gyroscopic Devices

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The following are the technical specifications for Project Number 54-11, which is to be carried out in 1954 by the Scientific-Technical Office for Device Construction (WTBG 3) of SAC Kabel: 1/

Technical Specifications Concerning a Universal Swing Installation (Rotating Installation) for Testing Autopilots, Flight Horizons and Other Gyroscopic Devices.

Purpose:

The installation is to serve the purpose of testing autopilots, flight horizons and other gyroscopic devices.

Technical conditions:

1. The installation must be provided with the following:
  - a. A special platform where the devices (aggregates) to be tested can be affixed.
  - b. A mechanism which enables the platform to rotate around three axes perpendicular to each other, and suitable scales for reading the rotation angles of the platform.
2. The installation must be mobile and must be able to test devices (aggregates) weighing up to 25 kilograms.
3. It must be possible to rotate the platform simultaneously with an inclination angle of plus minus 60 centigrades, a tangent angle of plus minus 40 centigrades and a circle angle (Kurswinkel) of 360 centigrades.
4. It must be possible to determine the rotation angles of the platform in relation to the three axes with an accuracy of three minutes.
5. It must be possible to operate the installation without disturbances within a temperature range of the surrounding air from

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plus 50 centigrades to minus 60 centigrades. The accuracy in the determination of the rotation angles as specified in point 4 must be guaranteed under this condition.

6. The installation is to have liquid levels and three supports (Stuetzen). The installation must be stable at any position of the platform and the device fixed upon it within the range determined by the angles mentioned in point 3.
7. The rotatable platform is to be square with the dimensions 350 x 350 millimeters and is to have grooves for affixing the device to be tested.
8. The construction of the installation must provide access to the interior elements of the installation, so that the installation can be overhauled and repaired while operating.
9. A work duration of at least one thousand hours within two years must be guaranteed.
10. Drawings, connection diagrams, technical description and operational instructions must be delivered together with the installation. Precise specifications for the dimensions, the weight and the construction plans of the installation will be furnished when the project sketches are examined.

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- 1/  Comment. The specifications were originally conceived in Russian and then translated into German. The German translation is clear and unequivocal. Accuracy of the English translation given here cannot, therefore, be guaranteed.

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